

HPA DOCUMENTED RELIABILITY

High Conductance Diodes

FOR NANOSECOND TURN-ON / TURN-OFF

- o high speed
- o high current
- o radiation resistant (data available)

ELECTRICAL CHARACTERISTICS AT 25°C

DEVICE	FORWARD CURRENT (MIN.) I_F	BREAKDOWN VOLTAGE (MIN.) V_{BR}	REVERSE CURRENT (MAX.) $I_{R.}$	CAPACITANCE (MAX.) C_O	REVERSE RECOVERY TIME (MAX.) t_{rr}	TURN-ON TIME (MAX.) t_{on}
1001	300	25	200	1.5	1.5	2.5
1002	800	35	200	3.0	2.0	2.5
1003	300	25	200	2.0	1.5	2.0
1004	600	25	200	4.0	2.0	2.0
1006	500	50	200	1.1	1.5	—
Units	mA	V	nA	pF	ns	ns
Test Conditions	$V_F = 1.4$ V (Note 1)	$I_R = 10$ μ A	(Note 2)	$V_R = 0$ V $f = 1.0$ MHz		

Note 1: Measured at a repetition rate not to exceed the power dissipation

Note 2: $V_R = 35$ V for 1006; $V_R = 30$ V for 1001, 1002; $V_R = 20$ V for 1003, 1004

PIN Diodes

FOR MICROWAVE SWITCHING / VARIABLE ATTENUATION, 10MHz TO 1GHz

- o specified lifetime for guaranteed performance at low frequencies
- o lowest insertion loss with high on / off ratios
- o glass, pill and double stud packages

ELECTRICAL CHARACTERISTICS AT 25°C

DEVICE	BREAKDOWN VOLTAGE (MIN.) V_{BR}	FORWARD VOLTAGE (MAX.) V_F	TOTAL CAPACITANCE (MAX.) C_{VR}	SERIES RESISTANCE (MIN.) R_S	LIFETIME (MIN.) τ
3001	150	1.0	0.30	2.5	100
3002	200	1.0	0.30	2.5	100
3101	150	1.0	0.32	2.5	100
3102	200	1.0	0.30	2.5	100
3201	150	1.0	0.35	2.5	100
3202	200	1.0	0.32	2.5	100
Units	V	V	pF	Ω	ns
Test Conditions	$I_R = 10$ μ A	$I_F = 150$ mA $I_F = 100$ mA	$V_R = -50$ V $f = 1.0$ MHz	$I_F = 50$ mA	$I_F = 50$ mA

CONTACT YOUR LOCAL HP FIELD ENGINEER
FOR DOCUMENTED RELIABILITY DATA

Please send more information on:

- ☐ HPA High Conductance Diodes
- ☐ HPA PIN Diodes
- ☐ HPA's complete line of solid-state devices
- ☐ Please have a field engineer call

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HPA

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